

Building Warpx on HPC3

Available Module Loads:

Compilers:

```
----- /opt/rcic/Modules/modulefiles/COMPILERS -----
clang/11.1.0 gcc/11.2.0 intel/2022.2 mpich/3.4/gcc.8.4.0 openmpi/4.0.3/gcc.8.4.0 openmpi/4.1.2/intel.2022.2
clang/13.0.0 gcc/system llvm/9.0.1 mpich/3.4/intel.2020u1 openmpi/4.0.3/intel.2020u1 rustc/1.62.0
cudask/22.9 intel-tbb/2021.5.0 llvm/11.1.0 mpich/4.0/gcc.11.2.0 openmpi/4.1.1/gcc.system
gcc/6.5.0 intel-tbb/20190605 llvm/13.0.0 mpich/4.0/intel.2022.2 openmpi/4.1.2/gcc.8.4.0
gcc/8.4.0 intel/2020u1 mpich/3.3.2/gcc.8.4.0 openmpi/4.0.3/gcc.6.5.0 openmpi/4.1.2/gcc.11.2.0
```

Tools:

```
----- /opt/rcic/Modules/modulefiles/TOOLS -----
awscli/2.8.3 geos/3.11.1 lz4/1.9.3
awscli/2.11.21 hdf5/1.10.5/gcc.8.4.0 ncl/6.6.2
bazel/0.26.1 hdf5/1.10.5/gcc.8.4.0-openmpi.4.0.3 nco/4.9.6/gcc.8.4.0
bazel/4.2.2 hdf5/1.10.5/gcc.system nco/5.0.6/gcc.11.2.0
boost/1.50.0/gcc.8.4.0 hdf5/1.10.5/gcc.system-openmpi.4.1.1 netcdf-c/4.7.0/gcc.8.4.0
boost/1.66.0/gcc.8.4.0 hdf5/1.10.5/intel.2020u1 netcdf-c/4.7.0/intel.2020u1
boost/1.71.0/gcc.8.4.0 hdf5/1.10.5/intel.2020u1-openmpi.4.0.3 netcdf-c/4.8.1/gcc.11.2.0
boost/1.78.0/gcc.8.4.0 hdf5/1.13.1/cudask.22.9 netcdf-c/4.8.1/intel.2022.2
boost/1.78.0/gcc.11.2.0 hdf5/1.13.1/gcc.11.2.0 parallel/20200222
charm/6.10.1/gcc.8.4.0 hdf5/1.13.1/gcc.11.2.0-openmpi.4.1.2 parallel/20211222
charm/7.0.0/gcc.11.2.0 hdf5/1.13.1/gcc.system plumed/2.6.1/gcc.8.4.0-openmpi.4.0.3
cmake/3.20.5 hdf5/1.13.1/gcc.system-openmpi.4.1.1 plumed/2.8.0/gcc.11.2.0
cmake/3.22.1 hdf5/1.13.1/intel.2022.2 plumed/2.8.0/gcc.11.2.0-openmpi.4.1.2
cuda/10.1.243 hdf5/1.13.1/intel.2022.2-openmpi.4.1.2 protobuf/3.11.4
cuda/11.4.0 hdf5/1.14.0/gcc.11.2.0 protobuf/3.19.4
cuda/11.7.1 hdf5/1.14.0/gcc.11.2.0-openmpi.4.1.2 scons/3.1.1
fftw/3.3.8/gcc.8.4.0 icu/65.1 scons/4.2.0
fftw/3.3.8/gcc.8.4.0-openmpi.4.0.3 icu/70.1 singularity/3.7.2
fftw/3.3.8/gcc.system imagemagick/7.0.10.26 singularity/3.9.4
fftw/3.3.10/gcc.11.2.0 imagemagick/7.1.0.30 udunits/2.2.26/gcc.8.4.0
fftw/3.3.10/gcc.11.2.0-openmpi.4.1.2 ioapi/3.2/gcc.11.2.0 udunits/2.2.26/intel.2020u1
foundation/v7 ioapi/3.2/intel.2020u1 udunits/2.2.28/gcc.11.2.0
foundation/v8 ioapi/3.2/intel.2022.2 udunits/2.2.28/intel.2022.2
geos/3.8.1 likwid/5.0.1 xz/5.2.5
geos/3.10.2 likwid/5.2.1
```

Languages:

```
----- /opt/rcic/Modules/modulefiles/LANGUAGES -----
anaconda/2020.07 go/1.20.4 julia/1.6.0 MATLAB/R2021b python/2.7.17 R/4.2.2 stata/17
anaconda/2021.11 java/1.8.0 julia/1.7.1 miniconda3/4.8.5 python/3.8.0 rstudio/1.4.1106 tcl/8.6.9
anaconda/2022.05 java/11 julia/1.8.2 miniconda3/4.12.0 python/3.10.2 rstudio/2022.02.1.461 tcl/8.6.12
bioconda/4.8.3 java/17 MATLAB/R2020a perl/5.30.0 R/4.0.4 rstudio/2022.12.0.353 tk/8.6.12
go/1.17.7 julia/1.5.1 MATLAB/R2020b perl/5.34.1 R/4.1.2 stata/16
```